

**INDUCTIVE-CAPACITIVE (LC) BASED QUADRATURE VOLTAGE  
CONTROLLED OSCILLATOR (VCO) WITH DETERMINISTIC QUADRATURE  
SIGNAL PHASE RELATIONSHIP**

ABSTRACT OF THE DISCLOSURE

A circuit and method for generating quadrature signals with a deterministic phase relationship. Between two inductive-capacitive (LC) based quadrature voltage controlled oscillators (VCO), phase shift circuitry is interposed such that the individual LC VCO circuits produce signals with corresponding phase delays which ensure that the desired lead or lag phase relationship between the quadrature signals is achieved.